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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/DM/17/2021-22

Date: 09.06.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of Work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID: : Cement (Birla Super 53 grade OPC)
Sample Supplied by: : AGENCY
Date of Manufacture: : May - 2021
Date of Testing : 07.06.2021 to 09.06.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	385 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50%	-

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CQCE/BBMP/DM/17/2021-22

Date : 09.06.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of Work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Date of Testing : 09.06.2021
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	65	6.50	6.50	93.5	90-100
2.36	98	9.80	16.30	83.7	75-100
1.18	164	16.40	32.70	67.3	55-90
600 Micron	218	21.80	54.50	45.5	35-59
300 Micron	159	15.90	70.40	29.6	8-30
150 Micron	164	16.40	86.80	13.2	0-10

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Job No.: CQCE/BBMP/DM/17/2021-22

Date : 09.06.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.

Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.

Name of Work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.

Date of Testing : 09.06.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	209	1.39	1.39	98.61	95-100
20	8416	56.11	57.50	42.50	30-70
10	3057	20.38	77.88	22.12	10-35
4.75	2631	17.54	95.42	4.58	0-5

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Job No.: CQCE/BBMP/DM/17/2021-22 Date : 09.06.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of Work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Date of Testing : 09.06.2021
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	227	4.5	4.5	95.5	95-100
10	2649	53.0	57.5	42.5	25-55
4.75	1682	33.6	91.2	8.8	0-10

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Job No.: CQCE/BBMP/DM/17/2021-22

Date : 09.06.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.

Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.

Name of Work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.

Date of Testing : 09.06.2021

Material : Sand(Plastering)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	23	2.30	2.30	97.7	95-100
2.36	19	1.90	4.20	95.8	95-100
1.18	34	3.40	7.60	92.4	90-100
600 Micron	65	6.50	14.10	85.9	80-100
300 Micron	253	25.30	39.40	60.6	20-65
150 Micron	507	50.70	90.10	9.9	0-15

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Job No.: CQCE/BBMP/DM/17/2021-22

Date : 09.06.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.

Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.

Name of Work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.

Date of Testing : 09.06.2021

Material : Sand(Masonry)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	18	1.80	1.80	98.2	90-100
1.18	26	2.60	4.40	95.6	70-100
600 Micron	67	6.70	11.10	88.9	40-100
300 Micron	249	24.90	36.00	64.0	5-70
150 Micron	503	50.30	86.30	13.7	0-15

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Job No.: CQCE/BBMP/DM/17/2021-22

Date :09.06.2021

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.

Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.

Name of Work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm,12mm,16mm,20mm" TMT"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test :09.06.2021

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.397	514	607	1.18	17
2	TMT	10	0.619	526	618	1.17	16
3	TMT	12	0.889	512	631	1.23	20
4	TMT	16	1.58	524	621	1.19	18
5	TMT	20	2.47	536	628	1.17	16

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Job No.: CQCE/BBMP/DM/17/2021-22

Date: 21.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency	**: Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work	: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2021	21.06.2021	8.052	346.7	15.41
2	14.06.2021	21.06.2021	8.046	359.5	15.98
3	14.06.2021	21.06.2021	8.031	368.2	16.36

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Job No.: CQCE/BBMP/DM/17/2021-22

Date: 21.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client Agency : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.

Name of the work : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2021	21.06.2021	8.136	350.2	15.56
2	14.06.2021	21.06.2021	8.158	341.7	15.19
3	14.06.2021	21.06.2021	8.175	369.7	16.43

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Job No.: CQCE/BBMP/DM/17/2021-22 Date: 21.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2021	21.06.2021	8.122	362.3	16.10
2	14.06.2021	21.06.2021	8.106	382.3	16.99
3	14.06.2021	21.06.2021	8.147	395.8	17.59

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Job No.: CQCE/BBMP/DM/17/2021-22

Date: 22.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2021	22.06.2021	8.195	353.2	15.70
2	15.06.2021	22.06.2021	8.171	341.8	15.19
3	15.06.2021	22.06.2021	8.146	367.9	16.35

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Job No.: CQCE/BBMP/DM/17/2021-22 Date: 22.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2021	22.06.2021	8.055	378.5	16.82
2	15.06.2021	22.06.2021	8.023	346.9	15.42
3	15.06.2021	22.06.2021	8.016	358.5	15.93

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ಬಿಬಿಎಂಪಿ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

for CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/DM/17/2021-22 Date: 23.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency	: **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work	: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.06.2021	23.06.2021	8.103	370.8	16.48
2	16.06.2021	23.06.2021	8.162	384.6	17.09
3	16.06.2021	23.06.2021	8.147	362.5	16.11

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Job No.: CQCE/BBMP/DM/17/2021-22 Date: 23.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.06.2021	23.06.2021	81.810	348.5	15.49
2	16.06.2021	23.06.2021	81.290	363.4	16.15
3	16.06.2021	23.06.2021	8.160	338.9	15.06

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Job No.: CQCE/BBMP/DM/17/2021-22 Date: 24.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.06.2021	24.06.2021	8.101	366.7	16.30
2	17.06.2021	24.06.2021	8.098	350.4	15.57
3	17.06.2021	24.06.2021	8.084	382.7	17.01

Note:

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Job No.: CQCE/BBMP/DM/17/2021-22 Date: 24.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.06.2021	24.06.2021	8.019	352.8	15.68
2	17.06.2021	24.06.2021	8.026	371.4	16.51
3	17.06.2021	24.06.2021	8.037	389.2	17.30

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JAS-ANZ ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/DM/17/2021-22 Date: 25.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.06.2021	25.06.2021	8.133	367.5	16.33
2	18.06.2021	25.06.2021	8.142	380.9	16.93
3	18.06.2021	25.06.2021	8.159	394.1	17.52

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Job No.: CQCE/BBMP/DM/17/2021-22 Date: 25.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.06.2021	25.06.2021	8.028	385.6	17.14
2	18.06.2021	25.06.2021	8.013	370.2	16.45
3	18.06.2021	25.06.2021	8.009	361.3	16.06

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Job No.: CQCE/BBMP/DM/17/2021-22 Date: 26.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.06.2021	26.06.2021	8.122	360.5	16.02
2	19.06.2021	26.06.2021	8.113	359.4	15.97
3	19.06.2021	26.06.2021	8.106	346.2	15.39

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Job No.: CQCE/BBMP/DM/17/2021-22

Date: 26.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.06.2021	26.06.2021	8.101	365.2	16.23
2	19.06.2021	26.06.2021	8.087	340.8	15.15
3	19.06.2021	26.06.2021	8.072	359.8	15.99

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